## **Quick Scores Examples**

## **EXAMPLE 1**

Student's raw score = 23 Total number of test items = 50

**STEP 1:** Convert the raw score into a percentage by dividing the raw number of correct answers by the total test items.

```
23 (raw score) / 50 (total test items) = 46.0000
```

**STEP 2:** Determine the cube root (^1/3) of the percentage from Step 1.

```
46.0000 ^(1/3) = 3.5830
```

**STEP 3:** Multiply the result of Step 2 by the constant term, which is 21.5443.

The constant term makes the maximum quick score equal 100 and the minimum quick score equal 0; thus, creating a range from 0-100, which aligns with a traditional 100-point grading scale.

```
3.5830 X 21.5443 = 77.1932
```

Quick Score = 77

## **EXAMPLE 2**

Student's raw score = 23 Total number of test items = 64

**STEP 1:** Convert the raw score into a percentage by dividing the raw number of correct answers by the total test items.

```
23 (raw score) / 64 (total test items) = 35.9375
```

**STEP 2:** Determine the cube root (^1/3) of the percentage from Step 1.

```
35.9375 (1/3) = 3.3000
```

**STEP 3:** Multiply the result of Step 2 by the constant term, which is 21.5443.

The constant term makes the maximum quick score equal 100 and the minimum quick score equal 0; thus, creating a range from 0-100, which aligns with a traditional 100-point grading scale.

```
3.3000 X 21.5443 = 72.0962
```

Quick Score = 72